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ABSTRACT

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A fiber reinforced metal compressor disc includes a hub, a rim and a diaphragm extending radially between the hub and the rim. The fiber reinforced metal compressor disc comprises a first ring of ceramic fibers and a second ring of ceramic fibers. The first ring of fibers is arranged in the hub and the second ring of fibers is arranged in the rim of the disc. The rim of the disc carries a plurality of blades. This arrangement of the rings of fibers minimizes the weight of the disc, especially for large radius discs suitable for carrying large blades and operating at high rotational speeds.

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